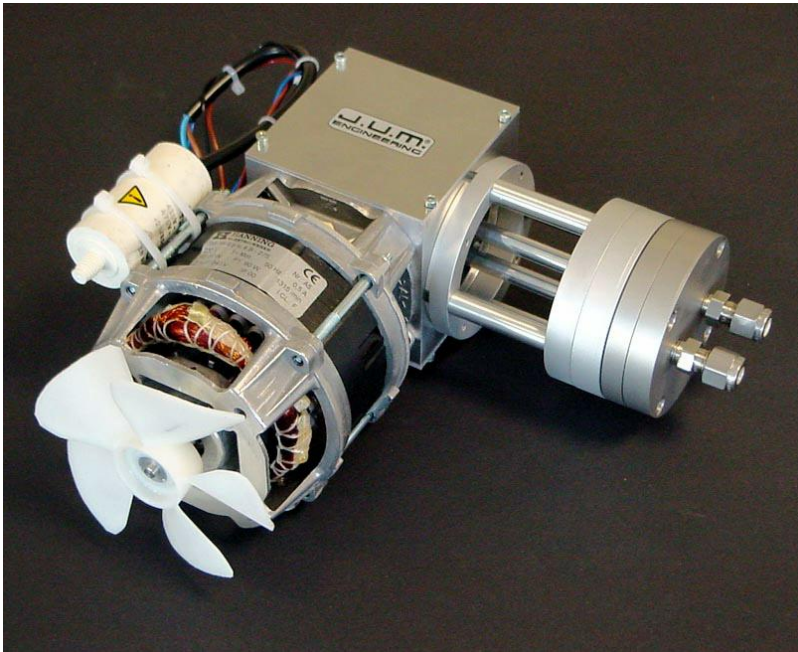
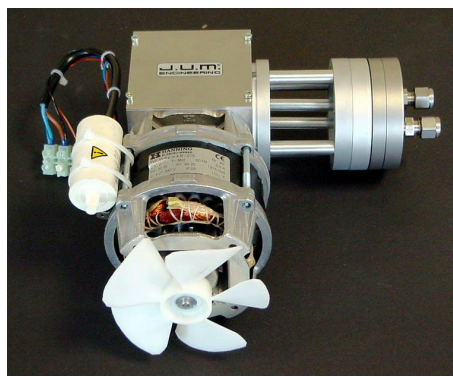




## SAMPLE PUMP, CORROSION AND HEAT RESISTANT 2812D-HT



The J.U.M. Engineering 2812D-HT is a very compact, High Temperature Sample Pump. The 2812D-HT is made of 316 Stainless Steel to withstand normal corrosive gasses as they are present in standard stack gas emission.



The ex-center drive mechanism has been designed for a very smooth, low vibration, continuous and silent operation.

The pump heads withstand up to 200°C and corrosive gasses as they can be present in

standard stack gas emissions and other gas emissions.

This pump has been designed to be used in heated ovens for continuous operation in sampling interfaces and continuous emissions monitoring systems.

### How our Diaphragm pumps and compressors work:

Driven by the electric motor via a drive shaft mounted on an excenter, the elastic diaphragm is moved up and downwards in a sealed pumping chamber.

While being on the downward stroke, that diaphragm draws the air or other gas through the opening inlet valve. When the drive shaft strokes the diaphragm upwards, it forces the inlet valve to close while the medium (air or other gas) is being pushed out through the outlet valve. The pump's compression chamber is hermetically sealed against the drive mechanism. Our pumps compress, pump or evacuate gasses completely oil free.

### Features

- Transferring hot air, vapors and gasses pure and clean
- Temperature resistant to up to 200°C
- No contamination of the media due to oil free operation
- Long product life
- Highly leak tight:  $6 \times 10^{-3}$  mbar X 1/s
- Very low vibration, very quiet and smooth running
- Can be operated and mounted in any position

### Operation and Installation

- Typical applications are transferring and compressing air and other gasses between +5°C and +200°C
- Operating ambient temperature from +5°C to +45°C
- This pump does not start against pressure or vacuum. Inlet and outlet lines need to be atmospheric pressure.
- This pump is built IP-00, general purpose and can only be used in an appropriate enclosure. Pump cannot be used in an area with a risk of explosion

### Performance Data

- Max. 12 liter/ min. @ free flow
- Max. pressure: 3.0 bar (g)
- Diaphragm and Valves: Viton®
- Head material stainless steel 316S

### Motor Data

- 230V/50Hz, 0,5A, 1340 UPM

### Applications

- Sample pump for CEM's
- Sample pump for stack emissions
- High temperature applications up to 200°C

\*Viton® is a registered trademark of DuPont Dow elastomers

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